



Evertrak™

7000 COMPOSITE TIE TECHNICAL DATA

STANDARD	SECTION: TEST	TEST	NOTE	TEST THRESHOLD	EVERTRAK 7000 AVERAGE VALUES
AREMA	2.2.3: 1C	Modulus of Elasticity	1	> 250 kpsi	415 kpsi
	2.2.3: 1C	Modulus of Rupture	1	> 2,500 psi	7,300 psi
	2.3: 2	Permanent Rail/Plate Area Compression	2	< 0.125 in.	0.032 in.
		Elastic Rail/Plate Area Compression		< 0.250 in.	0.169 in.
	2.4.1: 3A	Spike Pullout (Cut Spike)	2	> 1,900 lbf	2,100 lbf
	2.4.1: 3A	Spike Pullout (Screw Spike)	2	> 5,000 lbf	10,800 lbf
	2.7: 6	Tie and Fastener Wear / Deterioration	3	<0.2"	TBA
	2.8: 7	Fastener Electrical Impedance @ 60 Hz	4	> 20 kΩ	8.1 MΩ, Θ = -1°
2.9: 8	Single Tie Lateral Push	5	> 2,000 lbf	2,600 lbf (0 MGT)	
ASTM	D6341	Coefficient of Thermal Expansion	6	< 7.5 x 10 ⁻⁵ in./in./°F	3.8 x 10 ⁻⁵ in./in./°F

Spike holes must be pre-drilled at a diameter of **0.50"** and depth **6.0"** for plates > 0.5" thick.

Screw holes must be pre-drilled at a diameter of **0.75"** and depth **6.5"** for plates > 0.5" thick.

Do not exceed (4) fasteners per rail seat.

NOTES:

1. Tested at Evertrak, St. Louis MO, May - July 2018 (> 200 samples).
2. Tested at voestalpine Nortrak R&D Center, Birmingham, AL, May - June 2018.
3. Testing at Transportation Technology Center Inc, Pueblo, CO, August-September 2018.
4. Tested at voestalpine Nortrak, Cheyenne, WY, July 2018.
5. Tested at Transportation Technology Center Inc, Pueblo, CO, August 2018.
6. Tested at Vtec Laboratories, Bronx, NY, July 2018.